

NOVEMBER/DECEMBER 2025

FIM31/CIM31 — PROGRAMMING IN C

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions

1. List arithmetic operators in C.
2. Define constants.
3. Write the syntax of do-while.
4. Write the syntax of conditional operator.
5. Write Notes on Pointers.
6. List any four string handling functions.
7. What is the need of user defined functions?
8. Define recursion.
9. How do you define union?
10. Write the function used for dynamic memory allocation.



SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL the questions.

11. (a) How to declare the variable in C? Explain with example.

Or

- (b) Discuss evaluation of expression with example.

12. (a) Explain switch statement with examples.

Or

- (b) Discuss else-if statement with example.

13. (a) Discuss the concept of pointers with example.

Or

- (b) Write a C program to read N elements and find the sum using pointers.

14. (a) What is the basic form of functions? Explain.

Or

- (b) Discuss the categories of functions.

15. (a) Explain structure with example.

Or

- (b) What is file? How to read and write the text?

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the structure of C program.

17. Discuss the looping statements with example.

18. What is two dimensional array? Explain with example.

19. Explain the call by reference with example.

20. Briefly discuss the sequential and random access file with example.

